

# **TEST REPORT**

Reference No.	: ,	WTF20F02005418C
Applicant	n:Lite	Mid Ocean Brands B.V.
Address	TEX	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	:	115628
Sample Name	*:	Lanyard
Model No.	:-11	ML1330
Test Requested	SUMUT NUTEX	<ol> <li>Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628</li> <li>Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 &amp; No.126/ 2013 (previously restricted under Directive 2002/61/EC).</li> <li>As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.</li> </ol>
Test Method	211	Please refer to next page (s)
Test Conclusion		Please refer to next page (s)
Date of Receipt sample		2020-02-25
Date of Test	.TEX-	2020-02-25 to 2020-03-03
Date of Issue	÷	2020-03-03
Test Result Remarks:	: "	Please refer to next page (s)

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Compiled by:

Rena.Chen /Project Engineer

ed by: Appro

String Liang /Lab Manager



## **Test Result:**

# 1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Toot Man Multi	MDL	Result	Limit	
Test Item	(mg/kg)	No.1	No.2+No.3	(mg/kg)
Lead(Pb)	J 2 J	ND	45*	500
Conclusion	at the the	Pass N	Pass	

# Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "\*" = Results are calculated by the minimum weight of mixed components.



# 2) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
NO.	Animes Substances	CAS NO.	(mg/kg)	No.1	
1	4-Aminobiphenyl	92-67-1	30	ND	
2	Benzidine	92-87-5	_/- 30 _∕ <sup>*</sup>	ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND	
4	2-Naphthylamine	91-59-8	- 30	M ND ND	
5	o-Aminoazotoluene	97-56-3	30	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND. STATE ND. STATE	
7	p-Chloroaniline	106-47-8	30	ND	
8	2,4-diaminoanisol	615-05-4	30	ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND ND N	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND ND ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	
14	p-cresinin	120-71-8	30	ND ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	
16	4,4'-Oxydianiline	101-80-4	30	ND ND	
17	4,4'-Thiodianiline	139-65-1	30	ND	
18	o-Toluidine	95-53-4	30	Strand ND on the second	
19	2,4-Toluylendiamine	95-80-7	30	ND	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND ND	
21	o-anisidine	90-04-0	30	ND	
22	4-aminoazobenzene	60-09-3	30	ND	
23	2,4-Xylidin	95-68-1	30	ND	
24	2,6-Xylidin	87-62-7	30	ND ND	
	Conclusion	net - me	n n	Pass	

#### Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



# 3) Colour Fastness to Rubbing

Colour Fastness to Rubbin	g at at at	
(ISO 105 X12: 2001/Cor 200	2; Size of rubbing finger: 16mm diam	eter.)
at at the set	No.1	Client's Limit
Dry staining	4-5	2-3
Wet staining	4-5 M	2-3
Conclusion	Pass	at at ant -alt offer all

#### Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

# **Test Specimen Description:**

No.1: Green fibrous cloth No.2: Silvery metal ring No.3: Silvery metal buckle

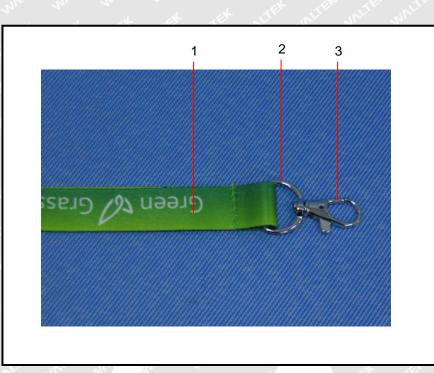
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1, <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	2		ezen Va Grass	gree	Ø	
	<sup>nan</sup> 4 5 6	7 8 9 10 11	12 13 14 15 16	<u>17 18 19 20 21 22</u>	23 24 25 26	27 28 29 111111

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## Photographs of parts tested:



===== End of Report ======

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